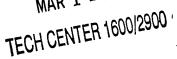
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PATENT APPLICATION: US/09/609,027B

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3 <110> APPLICANT: HENDRICKSON, WAYNE
             JIANG, XULIANG
                                                                  TECH CENTER 1600/2900
     5
             LANGLEY, KEITH E
             SYED, RASHID
             ANN HSU, YUEH-RONG
     9 <120> TITLE OF INVENTION: CONJUGATED LIGANDS FOR THE STIMULATION OF BLOOD CELL
PROLIFERATION BY
             EFFECTING DIMERIZATION OF THE RECEPTOR FOR STEM CELL FACTOR
    12 <130> FILE REFERENCE: 0575/50950
    14 <140> CURRENT APPLICATION NUMBER: US 09/609,027B
C--> 15 <141> CURRENT FILING DATE: 2000-06-29
    17 <160> NUMBER OF SEQ ID NOS: 22
    19 <170> SOFTWARE: PatentIn version 3.1
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    22 <211> LENGTH: 141
    23 <212> TYPE: PRT
    24 <213> ORGANISM: HOMO SAPIENS
    26 <400> SEQUENCE: 1
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    36 Val Pro Gly Met Asp Val Leu Pro Ser His Gln Trp Ile Ser Glu Met
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                                    40
    40 Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
    44 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
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    48 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
                        8.5
                                            90
    52 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
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    56 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
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79 Ile Thr Phe Glu Phe Val Asp Gln Glu Gln Leu Lys Asp Pro Val Cys
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83 Tyr Leu Lys Lys Ala Phe Leu Leu Val Gln Asp Ile Met Glu Asp Thr
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87 Met Arg Phe Arg Asp Asn Thr Pro Asn Ala Ile Ala Ile Val Gln Leu
                       70
91 Gln Glu Leu Ser Leu Arg Leu Lys Ser Cys Phe Thr Lys Asp Tyr Glu
                   85
                                       90
95 Glu His Asp Lys Ala Cys Val Arg Thr Phe Tyr Glu Thr Pro Leu Gln
              100
                                   105
99 Leu Leu Glu Lys Val Lys Asn Val Phe Asn Glu Thr Lys Asn Leu Leu
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                                120
103 Asp Lys Asp Trp Asn Ile Phe Ser Lys Asn Cys Asn Asn Ser Phe Ala
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130 Ala Thr Val Leu Arg Gln Phe Tyr Ser His His Glu Lys Asp Thr Arg
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134 Cys Leu Gly Ala Thr Ala Gln Gln Phe His Arg His Lys Gln Leu Ile
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138 Arg Phe Leu Lys Arg Leu Asp Arg Asn Leu Trp Gly Leu Ala Gly Leu
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150 Ser
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156 <212> TYPE: PRT
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165 Asn Ala Ile Gln Glu Ala Arg Arg Leu Leu Asn Leu Ser Arg Asp Thr
                                    25
169 Ala Ala Glu Met Asn Glu Thr Val Glu Val Ile Ser Glu Met Phe Asp
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40 173 Leu Gln Glu Pro Thr Cys Leu Gln Thr Arg Leu Glu Leu Tyr Lys Gln 55 177 Gly Leu Arg Gly Ser Leu Thr Lys Ile Lys Gly Pro Leu Thr Met Met 181 Ala Ser His Tyr Lys Gln His Cys Pro Pro Thr Pro Glu Thr Ser Cys 85 90 185 Ala Thr Gln Ile Ile Thr Phe Glu Ser Phe Lys Glu Asn Leu Lys Asp 186 100 105 189 Phe Leu Leu Val Ile Pro Phe Asp Cys Trp Glu Pro Val Gln Glu 190 115 120 193 <210> SEQ ID NO: 5 194 <211> LENGTH: 132 195 <212> TYPE: PRT 196 <213> ORGANISM: HOMO SAPIENS 198 <400> SEQUENCE: 5 200 Ala Pro Thr Ser Ser Thr Lys Lys Thr Gln Leu Gln Leu Glu His 204 Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys 208 Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Tyr Met Pro Lys Lys 40 212 Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys Pro 55 216 Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu Arg 75 70 220 Pro Arg Asp Leu Ile Ser Asn Ile Asn Val Ile Val Leu Glu Leu Lys 224 Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala Thr 225 100 105 228 Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Cys Gln Ser Ile Ile 115 120 232 Ser Thr Leu Thr 233 130 236 <210> SEQ ID NO: 6 237 <211> LENGTH: 115 238 <212> TYPE: PRT 239 <213> ORGANISM: HOMO SAPIENS 241 <400> SEQUENCE: 6 243 Ile Pro Thr Glu Ile Pro Thr Ser Ala Leu Val Lys Glu Thr Leu Ala 1.0 247 Leu Leu Ser Thr His Arg Thr Leu Leu Ile Ala Asn Glu Thr Leu Arg 25 251 Ile Pro Val Pro Val His Lys Asn His Gln Leu Cys Thr Glu Glu Ile 255 Phe Gln Gly Ile Gly Thr Leu Glu Ser Gln Thr Val Gln Gly Gly Thr 259 Val Glu Arg Leu Phe Lys Asn Leu Ser Leu Ile Lys Lys Tyr Ile Asp 260 65 70



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263 Gly Gln Lys Lys Cys Gly Glu Glu Arg Arg Arg Val Asn Gln Phe 267 Leu Asp Tyr Leu Gln Glu Phe Leu Gly Val Met Asn Thr Glu Trp Ile 100 105 271 Ile Glu Ser 272 115 275 <210> SEQ ID NO: 7 276 <211> LENGTH: 164 277 <212> TYPE: PRT 278 <213> ORGANISM: RATTUS SP. 280 <400> SEQUENCE: 7 282 Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr 286 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr 25 290 Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met 40 294 Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser 55 298 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val 75 302 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 85 306 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro 105 310 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 115 120 314 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 135 318 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 319 145 150 155 322 Pro Pro Val Ala 326 <210> SEQ ID NO: 8 327 <211> LENGTH: 164 328 <212> TYPE: PRT 329 <213> ORGANISM: MURINE SP. 331 <400> SEQUENCE: 8 333 Lys Glu Ile Cys Gly Asn Pro Val Thr Asp Asn Val Lys Asp Ile Thr 337 Lys Leu Val Ala Asn Leu Pro Asn Asp Tyr Met Ile Thr Leu Asn Tyr 341 Val Ala Gly Met Asp Val Leu Pro Ser His Cys Trp Leu Arg Asp Met 40 345 Val Ile Gln Leu Ser Leu Ser Leu Thr Thr Leu Leu Asp Lys Phe Ser 55 349 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Gly 75 353 Lys Ile Val Asp Asp Leu Val Leu Cys Met Glu Glu Asn Ala Pro Lys

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361 Glu Glu Phe Phe Ser Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
365 Phe Met Val Ala Ser Asp Thr Ser Asp Cys Val Leu Ser Ser Thr Leu
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 370 145
 373 Pro Pro Val Ala
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  378 <211> LENGTH: 164
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   392 Val Ala Gly Met Asp Val Leu Pro Ser His Cys Trp Leu Arg Asp Met
    396 Val Thr His Leu Ser Val Ser Leu Thr Thr Leu Leu Asp Lys Phe Ser
    400 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Gly
    393
     404 Lys Ile Val Asp Asp Leu Val Ala Cys Met Glu Glu Asn Ala Pro Lys
     408 Asn Val Lys Glu Ser Leu Lys Lys Pro Glu Thr Arg Asn Phe Thr Pro
     412 Glu Glu Phe Phe Ser Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
      416 Phe Met Val Ala Ser Asp Thr Ser Asp Cys Val Leu Ser Ser Thr Leu
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       421 145
       424 Pro Pro Val Ala
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        435 Lys Gly Ile Cys Gly Lys Arg Val Thr Asp Asn Val Lys Asp Val Thr
       430 <212> TYPE: PRT
        431 <213> ORGANISM: CANIS SP.
        439 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Lys Ile Ala Leu Lys Tyr
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          451 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
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VERIFICATION SUMMARY

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